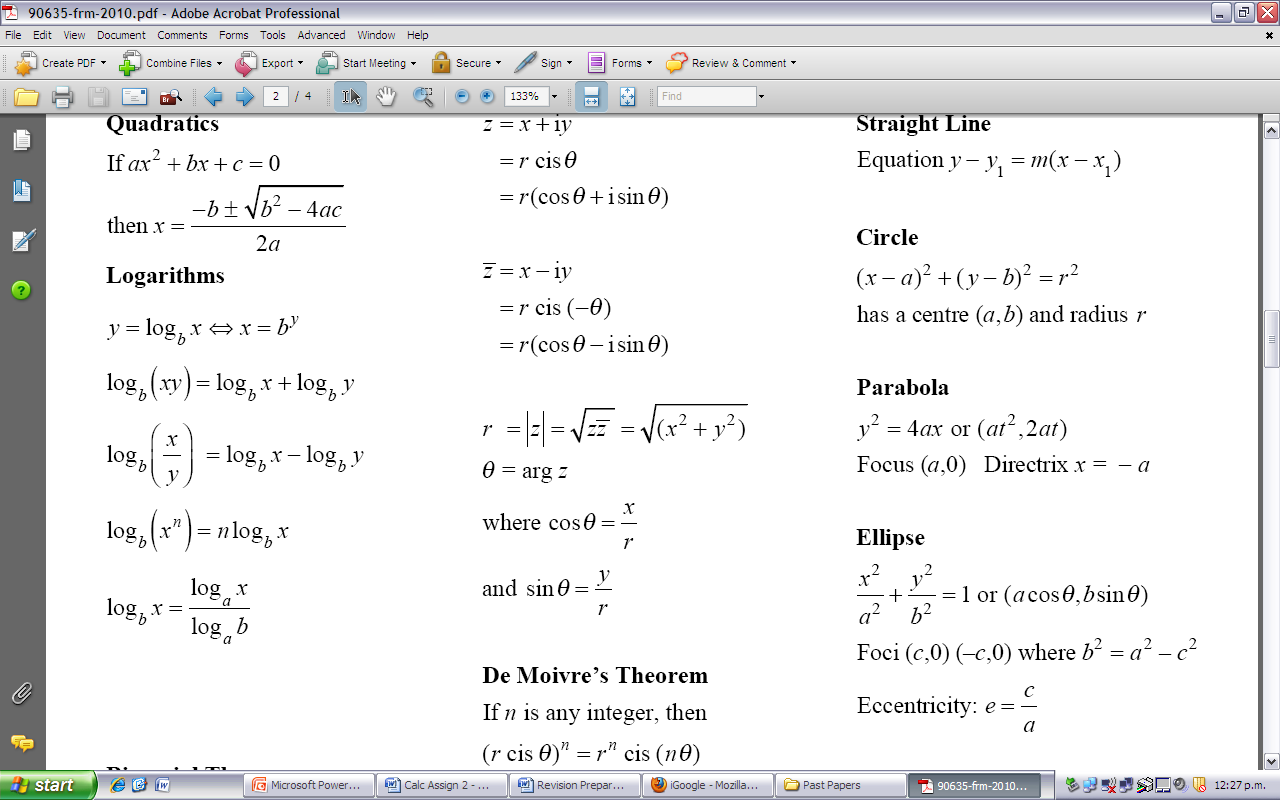
**Revision Preparation for Complex Numbers *Due Tuesday 3 May***

* Solving quadratics using quadratic roots formula
* Write in the form (x+b)2+c (complete the square: see p.268)
* The discriminant Evaluate the discriminant and describe the nature of the roots (2 real, one real, no real)   
  1. 
* Log rules: simplify:
  1. 5loga+logb-3logab
  2. 4log4-2log8-2log2
  3. 3-2log55
  4. Write  as a logarithm to the base *e*.
* Solving log equations: solve
  1. x=log416
  2. log(x+5)=log(x)+log(2)
  3. ln(2x-5)+ln(5)=2ln(x)
  4. If , find *x* in terms of *b*.
* Exponentials:
  1. If = 5, find .
  2. If *a* = 4 and *b* = 9, find 
  3. Factorise 
* Solve exponential equations
  1. 
  2. If  find *y* in terms of *x*.
* Simplify without using a calculator:
  1. 
  2. 
  3. 